CONTENTS

No. 1. January, 1947

The Regulation of the Respiratory Movements by Peripheral Chemo-Receptors. *August Pi-Suñer* 1
The Action of Insulin. *J. P. Bouckaert and Chr. de Duve* 39
Optimal Growth of the Rat. *Max S. Dunn, Edward A. Murphy and Louis B. Rockland* 72
Development of the Graafian Follicle and Ovulation. *Frederick L. Hisaw* 95
The Renal Origin of Hypertension. *Harry Goldblatt* 120

No. 2. April, 1947

On the Nature of Pain. *Harold G. Wolff and James D. Hardy* 167
Heat: Man's Exchanges and Physiological Responses. *Willard Machle and T. F. Hatch* 200
The Definition and Meaning of pH. *A. G. Ogston* 228
A Review of Physiological and Psychological Studies of Sexual Behavior in Mammals. *Frank A. Beach* 240
Recent Advances in the Study of Biological Competition Between Structurally Related Compounds. *D. W. Woolley* 308

No. 3. July, 1947

The Biological Significance of Hyaluronic Acid and Hyaluronidase. *Karl Meyer* 335
Pathogenetic Factors and Pathological Consequences of Decompression Sickness. *H. R. Catchpole and Isidore Gersh* 360
The Genesis of the Electrocardiogram. *Louis N. Katz* 398
Intercellular Cement and Capillary Permeability. *Robert Chambers and B. W. Zweifach* 436
Some Physiological Effects of Curare and Their Application to Clinical Medicine. *A. R. McIntyre* 464
The Urinary Coproporphyrins in Health and Disease. *Cecil James Watson and Evrel A. Larson* 478

No. 4. October, 1947

Body Size and Metabolic Rate. *Max Kleiber* 511
Pharmacology of Antihistamine Compounds. *Earl R. Loew* 542
The Metabolism of Acetic Acid in Animal Tissues. *Konrad Bloch* 574
Biological and Medical Applications of Electrophoresis. *John A. Luetscher, Jr.* 621
Problems in Invertebrate Electrophysiology. *Theodore Holmes Bullock* 643